REMARKS

Claims 1-14 and 19-22 are pending. By this Amendment, claims 1 and 11 are amended to correct an informalities.

The Examiner rejects claims 1-6, 8, 9, 11-14 and 19 under 35 U.S.C. §102(b) over U.S. Patent No. 6,602,472 to Zimmermann et al.; rejects claims 7 and 20-22 under 35 U.S.C. §103(a) over Zimmermann and rejects claim 10 under 35 U.S.C. §103(a) over Zimmermann in view of U.S. Patent No. 6,633,031 to Shultz.

Applicants' independent claim 1 is directed to an electrospray source having a structure comprising at least one flat and thin tip in cantilever in relation to the rest of the structure. The tip is provided with a capillary slot formed through the complete thickness of the tip. The capillary slot ends up at the end of the tip to form the ejection orifice of the electrospray source. The source comprises a means of supplying the capillary slot with liquid to be nebulised and means of applying an electrospray voltage to the liquid.

Applicants' independent claim 11 is directed to a method of manufacturing a structure that is an electrospray source comprising, the formation of a support from a substrate. The formation of a wafer having a part constituting a flat and thin tip, the tip being provided with a capillary slot, to convey a liquid to be nebulised, formed in the complete thickness of the tip and which ends up at the end of the tip. The wafer is made integral on the support and the tip is in cantilever in relation to the support.

Such features encompass Applicants' exemplary embodiment as illustrated in Fig. 1A wherein the electric spray source includes a support 1 and a wafer 2 integral with the support 1. A part of the wafer 2 forms a tip 3 in cantilever in relation to the support 1. The wafer includes in its center a recess 4 constituting a reservoir. A

Application No. 10/578,879

capillary slot 5 connects the reservoir 4 to the end 6 of the tip 3. As shown in Fig. 2 the capillary slot 5 is formed through the complete thickness of the tip 3. The above description from the specification does not limit Applicants' claims.

In contrast, Fig. 4a of the Zimmermann patent discloses a microspray tip 57 including a panel 56. Microchip 50 includes a drawing-in tube 51. Sample reservoirs 52 open into a channel 53 which in turn has a substance conveying connection the to drawing-in tube 51. Channel 53 opens, in turn, into an area of channel 54. Substances which are finally produced at the end of the separating channel 54 are then fed to the microspray tip 57 via channel 56. Channel 56 is a tubular channel, similar to tubular channel 33 shown in Fig. 2 and a not a capillary slot formed through a complete thickness of the tip as alleged by the Examiner.

To the extent the Examiner relies on the Figures of Zimmermann, as stated in MPEP § 2125, drawings and pictures can anticipate claims if they clearly show the structure which is claimed. In re Mraz, 455 F.2d 1069, 173 U.S.P.Q. 25 (CCPA 1972). The drawings must be analyzed for what they reasonably disclose and suggest to one of ordinary skill in the art. In re Aslanian, 590 F.2d 911, 200 U.S.P.Q. 500 (CCPA 1979). No figure in the Zimmermann reference provides support to the Examiner's assertion that Zimmermann discloses a capillary slot formed through the complete thickness of the tip as in Applicants' independent claim 1.

Applicants' independent claim 11 is distinguishable over Zimmermann for reasons similar to those discussed above with respect to independent claim 1.

The Shultz patent does not overcome the deficiencies of the Zimmermann patent noted above.

Attorney Docket No. 1034404-000002 Application No. 10/578,879

Page 8

The dependent claims are distinguishable over the cited references for at

least the reasons discussed above as well as for the individual features they recite.

For example, dependent claim 12 recites the provision of a substrate to form a

support, the delimitation of the support by means of trenches etched in the substrate,

the deposition, on a zone of the substrate corresponding to the future tip of the

structure, of sacrificial material according to a determined thickness, the deposition

of a wafer on the support delimited in the substrate, the tip of the wafer being

situated on the sacrificial material, the elimination of the sacrificial material, and the

detachment of the support in relation to the substrate by cleavage at the level of said

trenches. These features are not disclosed in the Zimmermann patent.

Prompt and favorable examination on the merits is respectfully requested.

Should the Examiner have any questions regarding this Amendment or the

application in general, he is invited to contact the undersigned at the number

Bv:

provided below.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: December 17, 2009

Michael Britton

Registration No. 47260

Customer No. 21839

703 836 6620